

Claims

1. A non-aqueous electrolyte secondary battery including anode and cathode consisting of material capable of carrying out doping/undoping of lithium, and non-aqueous electrolytic solution in which electrolyte is dissolved in non-aqueous solvent,

wherein flaky graphite is included as conductive agent in both the anode and the cathode, or in either one of them.

2. A non-aqueous electrolyte secondary battery as set forth in claim 1,

wherein granulated carbon having bulk density of 0.5 g/cm^3 or more is included as the conductive agent.

3. A non-aqueous electrolyte secondary battery as set forth in claim 1,

wherein carbon black is included as the conductive agent.

4. A non-aqueous electrolyte secondary battery as set forth in claim 1,

wherein granulated carbon having bulk density of 0.5 g/cm^3 or more and carbon black are included as the conductive agent.

5. A non-aqueous electrolyte secondary battery as set forth in claim 2,

wherein mixing weight ratio between flaky graphite and granulated carbon serving as the conductive agent is 95:5 to 5:95.

6. A non-aqueous electrolyte secondary battery as set forth in claim 3,

wherein mixing weight ratio between flaky graphite and carbon

black serving as conductive agent is 95:5 to 15:85.

7. A non-aqueous electrolyte secondary battery as set forth in claim 4,

wherein weight ratio between mixture of flaky graphite and granulated carbon serving as conductive agent and carbon black added to the mixture is 99:1 to 70:30.

8. A non-aqueous electrolyte secondary battery as set forth in claim 1,

wherein percentage content of the conductive agent in cathode or anode mix is 1.5 % by weight or more, and is 20 % by weight or less.

9. A non-aqueous electrolyte secondary battery as set forth in claim 1,

wherein the cathode consists of lithium transition metal composite oxide represented by general expression LiMO_2 (M indicates at least one kind among group consisting of Co, Ni, Mn, Fe, Al, V and Ti).

10. A non-aqueous electrolyte secondary battery as set forth in claim 1,

wherein the electrolytic solution is solution in which lithium salt is dissolved in non-aqueous solvent including at least one of cyclic ester carbonate and chain ester carbonate.

11. A non-aqueous electrolyte secondary battery as set forth in claim 1,

wherein carbon material is used as anode capable of carrying

out doping/undoping of lithium.

12. A non-aqueous electrolyte secondary battery as set forth in claim 11,

wherein the carbon material of the anode is graphite material.

13. A non-aqueous electrolyte secondary battery as set forth in claim 11,

wherein the carbon material of the anode is non-graphitizable carbon material.

14. A non-aqueous electrolyte secondary battery as set forth in claim 1,

wherein material including metal oxide as main component is used as anode capable of carrying out doping/undoping of lithium.